

Title (en)

Method for Framing Data and Apparatus Thereof

Title (de)

Verfahren zum Einrahmen von Daten und Vorrichtung dafür

Title (fr)

Procédé de formation de trames de données et appareil correspondant

Publication

**EP 2784963 A1 20141001 (EN)**

Application

**EP 14174083 A 20090414**

Priority

- US 4647408 P 20080421
- US 35583709 A 20090119
- EP 13170854 A 20090414
- EP 09733782 A 20090414

Abstract (en)

An apparatus includes at least one component configured to implement a method. The method includes: encapsulating a data stream into at least one Gigabit Passive Optical Network (GPON) Encapsulation Method (GEM) frame, where the GEM frame comprises a header aligned with a word boundary of at least about four bytes; encapsulating the GEM frame into a GPON Transmission Convergence (GTC) frame.

IPC 8 full level

**H04J 14/08** (2006.01); **H04B 10/2581** (2013.01); **H04J 3/16** (2006.01); **H04Q 11/00** (2006.01)

CPC (source: EP US)

**H04B 10/27** (2013.01 - US); **H04Q 11/0067** (2013.01 - EP US); **H04Q 2011/0079** (2013.01 - EP US)

Citation (search report)

- [A] US 2004208631 A1 20041021 - SONG JAE-YEON [KR], et al
- [A] "Gigabit-capable Passive Optical Networks (G-PON): Transmission convergence layer specification; G.984.3 (03/08)", ITU-T STANDARD, INTERNATIONAL TELECOMMUNICATION UNION, GENEVA ; CH, no. G.984.3 (03/08), 29 March 2008 (2008-03-29), XP017433831

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 2009263130 A1 20091022; US 8351785 B2 20130108;** AU 2009240705 A1 20091029; AU 2009240705 B2 20130502; CN 101983487 A 20110302; CN 101983487 B 20131009; CN 103701553 A 20140402; CN 103701553 B 20170104; CN 103702241 A 20140402; CN 103702241 B 20171222; CN 103716109 A 20140409; CN 103716109 B 20170412; EP 2191598 A1 20100602; EP 2191598 A4 20110223; EP 2191598 B1 20130807; EP 2637334 A1 20130911; EP 2637334 B1 20150304; EP 2784963 A1 20141001; EP 2784963 B1 20170215; EP 3185448 A1 20170628; EP 3185448 B1 20210825; EP 3852290 A1 20210721; EP 3852290 B1 20230920; ES 2432802 T3 20131205; ES 2898787 T3 20220308; ES 2967365 T3 20240429; FI 3852290 T3 20231219; JP 2011517244 A 20110526; JP 2012253802 A 20121220; JP 5065523 B2 20121107; JP 5520348 B2 20140611; KR 101158351 B1 20120622; KR 20100134645 A 20101223; PL 2191598 T3 20131231; PT 2191598 E 20131031; PT 3852290 T 20231211; RU 2010147630 A 20120527; RU 2467482 C2 20121120; US 2012045207 A1 20120223; US 2013121697 A1 20130516; US 8190026 B2 20120529; US 8781321 B2 20140715; WO 2009129722 A1 20091029

DOCDB simple family (application)

**US 35583709 A 20090119;** AU 2009240705 A 20090414; CN 2009071264 W 20090414; CN 200980110669 A 20090414; CN 201310496878 A 20090414; CN 201310497283 A 20090414; CN 201310497300 A 20090414; EP 09733782 A 20090414; EP 13170854 A 20090414; EP 14174083 A 20090414; EP 17152120 A 20090414; EP 21161443 A 20090414; ES 09733782 T 20090414; ES 17152120 T 20090414; ES 21161443 T 20090414; FI 21161443 T 20090414; JP 2011504301 A 20090414; JP 2012176780 A 20120809; KR 20107022537 A 20090414; PL 09733782 T 20090414; PT 09733782 T 20090414; PT 21161443 T 20090414; RU 2010147630 A 20090414; US 201113287677 A 20111102; US 201213708472 A 20121207